

**GREENHOUSE GAS EMISSIONS REDUCTION FUND**  
**Fiscal Year 2011, Quarter 3 Progress Report – DRED/LRCC**  
February 1, 2011 - March 31, 2011

**1. Program Title**

Expanded Energy Efficiency and Renewable Energy Program (BPI Building Analyst, Energy Auditor Training Program Development and Delivery: Lakes Region Community College (LRCC), Laconia, NH and Program Management NH Department of Resources and Economic Development (DRED))

**2. Program Type**

Energy audits;

1. Weatherization of NH residential housing stock;
2. Energy efficiency work force training and development;
7. Compliance efforts;
8. Improve the electric and thermal energy efficiency of existing residences;
9. Programs to foster the retrofitting of highly efficient and affordable housing;
10. Education, outreach and information programs that promote energy efficiency and conservation to reduce greenhouse gas emissions generated within NH.

**3. Summary of work completed during this reporting period February 1, 2011 – March 31, 2011, FY11 Q3 Reference Activities Under Exhibit A, Page 2, Timeline.**

**1) Work with DRED to craft outreach activities, with reliance on web pages as the primary method of outreach to increase the number of participants in the Energy Auditor Training Program.**

LRCC has collaborated with DRED to develop a joint marketing campaign including web site development, e-mail announcements, purchased media in select regional radio and newspapers, press releases and flyers. Campaign development 100% complete. In 2011 the program relied on web marketing and expanded e-mail lists to key contacts and prospective students throughout the state, in addition to training alumni. While this all-electronic approach was less expensive, it also lead to generally smaller class sizes.

**2) Solidify a Memorandum of Agreement between DRED and LRCC.**

MOU 100% complete.

**3) Market the new contractor training program in Building Analysis (BA) by offering scholarships sponsored via the PUC grant funds that will pay 50% of course tuition for students accepted into the program, as well as initial equipment costs.**

The discounted tuition opportunity is promoted in all print media, through letters to Workforce Development and Employment Security Outlets throughout the state. Marketing has also been done through a number of professional organizations such as the Home Builders Association of New Hampshire, State Utilities, Community College campuses where training is to be conducted, and Civic Organizations such as the Plymouth Area Renewable Energy Initiative and Sustainable Energy Resource Group. See below for descriptions of specific courses.

**4) DRED oversaw the contract for the training at LRCC. LRCC performed the following:**

- Marketing and promoted the energy auditor training programs during the February – March 2011 grant period.

- Delivered a BPI Building Analyst energy auditor training class in Laconia, and provided written BPI testing. Field BPI Building Analyst certification testing was offered in April 2011.

-In February and March 2011 offered three energy auditor courses on more advanced topics – TREAT Energy Modeling (software modeling of energy improvements), and Infrared for Weatherization and Energy Audits, and an Installer workshop by PAREI. Infrared thermal imaging is rapidly becoming a popular diagnostic tool among energy auditors. The TREAT course was developed in conjunction with the BetterBuildings program, whose auditors will use TREAT to better quantify estimated energy savings. LRCC also worked with the Plymouth Area Renewable Energy Initiative (PAREI) as a partner organization to develop a one-day “Muddy Boots” workshop in March on the installation of energy efficiency measures at a house under construction in Plymouth. In addition a pilot Building Envelope Retrofit Mini Boot Camp was originally planned for February 2011 and rescheduled for April 2011. This course has been designed for weatherization installers as well as energy auditors, because successful energy efficiency efforts depend on professional weatherization installations as well as competent energy auditing. These courses represent a bridge between the 2009-2010 grant program and the following 2011-2012 grant program. A summary of these courses is below:

Course	Location	Date	Students
Infrared for Weatherization and Energy Audits	Laconia	Feb. – Mar. 2011	11
TREAT Energy Modeling	Laconia	Mar. 2011	12
Insulation and Air Sealing Muddy Boots Training (through PAREI)	Plymouth	Mar. 2011	22
BPI Building Analyst	Laconia	Mar. 2011	6

- Increased the number of workshop and conference presentations, including a “Button Up New Hampshire” presentation in Canterbury in March 2011, and a booth with Manchester Community College and other UNH Cooperative Extension and other Community Energy information providers at HBRANH’s New Hampshire Home Show in March 2011. Two “Cool Tools: Energy Diagnostic Equipment” workshops for the general public were also presented at this NH Home Show. Communication with training contacts and other outreach efforts increased as a result of the energy efficiency training manager working more closely through the College.

**4-a) Establish Learning Centers at five Community Colleges in NH (or other location favorable to demographics) with LRCC as the hub site that contracts with other colleges in the system.**

Along with its home campus in Laconia, LRCC has established training sites at our sister campuses in Berlin, Pease, Lebanon, Nashua, and Claremont. We also offered training at the Society for Protection of New Hampshire Forests in Concord, Lebanon College, Home Builders and Remodelers in Concord, and the New Hampshire Electric Cooperative in Plymouth. Activity 100% complete

**4-b) Apply for Building Performance Institute provider ship status.**

LRCC has secured an affiliation relationship with BPI and has completed the faculty certification process for our instructor and five BPI field proctors in 2009. Affiliation has been renewed via College resources for FY11. Three additional BPI field proctors were trained by BPI staff in Fall 2010. Activity 100% complete.

**4-c) Acquire and adapt curriculum, hire and train staff on selected BA curriculum, and develop a “train the trainer” model to increase the instructor pool across New Hampshire.**

LRCC has purchased the nationally recognized NYSERDA Building Analyst Curriculum and our Instructor has reviewed and updated the curriculum for New Hampshire specific application. In addition to the lead instructor, a total of eight field instructors/ BPI test proctors have been trained through the program and certified as proctors by BPI. Several of these instructors have also conducted trainings with other civic and educational organizations in New Hampshire.

The curriculum resources of world-class specialized energy efficiency services were utilized for the Infrared training (The Snell Group) and TREAT energy modeling training (Performance Systems Development) in February – March 2011. The TREAT course was developed as a train-the-trainer model, with the lead LRCC instructor working closely with TREAT trainers in order to independently teach the TREAT course after the initial March 2011 course. Activity 100% complete.

**4-d) Establish internship sites for newly trained workers and, where applicable, coordinate student shadowing of weatherization experts when conducting expanded energy audits.**

Informal mentoring, providing job opportunity information and related sharing of information was conducted on a more intensive basis during this quarter through an e-mail distribution list, one-on-one e-mail communications and telephone communications. While the internship and weatherization job shadowing program has not been as successful as originally envisioned, during late 2010 and 2011 there has been preparation work for a mentoring program that would incorporate job shadowing in the continuing 2011-2012 grant program.

**4-e) Recruit and train BPI Building Analysts Professional.**

Fifty-one (51) students were trained during this quarter. Of the four training session the fourth session trained six (6) students as BPI Building Analysts. All six students also took the related BPI written test and field test.

Sessions Completed

Location	#Students	#Written Test	#Field Test	#BPI Certified
Laconia LRCC March 10, 2011 Building Analyst Class	6	6	4	Results Not Yet Available

LRCC has conducted student evaluations activities for program assessment and improvement. Status 100% complete for this quarter.

**4-f) Market Energy Auditor Training Program state-wide and coordinate marketing efforts with DRED.**

In publicizing events, the LRCC included the NH Division of Economic Development logo as a "sponsoring partner." The NH PUC and GHGERF have also been acknowledged as the "funding partner".

Ongoing activity with Marketing Principals from DRED and LRCC. 100% complete for this quarter.

**4-g) Monitor the newly trained workforce through employers.** Activity in process

**4-h) Collect data.** Activity in process.

**4-i) Meet quarterly with DRED to provide updates on graduate success, program status and impact on the energy community.**

Communication is ongoing between LRCC Program Coordinator and DRED.

**4-j) Obtain permission from students to use generalized information for the purposes of planning, case studies, program promotion, and reporting.**

Completed at the beginning of each cycle. 100% complete for cycle.

**4-k) Benefits to Low Income residents.** (None at this time.)

**4-l) Problems or delays.** (None at this time.)

**4-m) Deviation from work plan.** (None at this time.)

**4. Work to be completed. Summarize the overall project completed.**

*Please see the final summary report.*

**5. Jobs Created**

*Please see the final summary report.*

**6. Explain any obstacles encountered or any milestones not reached.**

*Please see the final summary report.*

**7. If applicable, in a section labeled *Beyond the Contract* (or some other well defined title), please report other activities, partnerships, funding or other synergies that have occurred as a result of this funding.**

*Please see the final summary report.*

**8. If applicable, please include brochures, pictures, announcements, or other materials developed to promote your grant activities. Attachments (and other documentation) are appreciated.**

Attached are the following new materials are relevant for this February – March 2011 period:

-Three RGGI Success Stories handouts produced by New Hampshire Department of Environmental Services.

-The LRCC page as part of an 8-page Community Energy booklet distributed at the March 2011 New Hampshire Home Show.

**9. Budget vs. Actual Expenditures:**

*Included with the invoice.*

During the last two quarters, in consultation with the PUC and DRED Lakes Region Community College moved to a different system for reimbursement of grant expenses that uses actual expenses rather than the unsustainable per-head scholarship system. This enabled the College to continue to offer training courses at approximately 50% of their total cost as stipulated in the contract. There are many unbilled expenses that are not included for reimbursement, including considerable unbilled staff time associated with the training program.

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